# LTK Antibody (N-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | LTK, Blocking Peptide |
| **Full Product Name** | LTK Antibody (N-term) Blocking Peptide |
| **Product Gene Name** | LTK blocking peptide |
| **Product Synonym Gene Name** | TYK1 |
| **Product Synonym Names** | Leukocyte tyrosine kinase receptor; Protein tyrosine kinase 1; LTK; TYK1 |
| **Form/Format** | The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human LTK. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | LTK peptide (MBS9227132) is used for blocking the activity of LTK antibody (MBS9209588) |
| **Molecular Weight** | 78,714 Da |
| **OMIM** | 151520 |
| **Cellular Location** | Membrane; Single-pass type I membrane protein |
| **Tissue Location** | Expressed in non-hematopoietic cell lines and T- and B-cell lines. |
| **Related Product Information for LTK blocking peptide** | Orphan receptor with a tyrosine-protein kinase activity. The exact function of this protein is not known. Studies with chimeric proteins (replacing its extracellular region with that of several known growth factor receptors, such as EGFR and CSFIR) demonstrate its ability to promote growth and specifically neurite outgrowth, and cell survival. Signaling appears to involve the PI3 kinase pathway. Involved in regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport. |
| **Other Notes** | Small volumes of LTK blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for LTK purchase** | MBS9227132 is a blocking peptide targeting LTK. Also known as LTK Antibody (N-term) Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LTK. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 143811416 |
| **NCBI GeneID** | 4058 |
| **NCBI Accession #** | P29376.3 |
| **UniProt Primary Accession #** | P29376 |
| **UniProt Secondary Accession #** | A6NNJ8; B4DL89; E9PFX4 |
| **UniProt Related Accession #** | P29376 |
| **NCBI Official Full Name** | Leukocyte tyrosine kinase receptor |
| **NCBI Official Synonym Full Names** | leukocyte receptor tyrosine kinase |

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| **NCBI Official Symbol** | LTK |
| **NCBI Official Synonym Symbols** | TYK1 |
| **UniProt Protein Name** | Leukocyte tyrosine kinase receptor |
| **UniProt Synonym Protein Names** | Protein tyrosine kinase 1 |
| **Protein Family** | Leukocyte tyrosine kinase receptor |
| **UniProt Gene Name** | LTK |
| **UniProt Synonym Gene Names** | TYK1 |
| **UniProt Entry Name** | LTK_HUMAN |
| **NCBI Protein Information** | leukocyte tyrosine kinase receptor |
| **NCBI Summary for LTK** | The protein encoded by this gene is a member of the ros/insulin receptor family of tyrosine kinases. Tyrosine-specific phosphorylation of proteins is a key to the control of diverse pathways leading to cell growth and differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008] |
| **UniProt Comments for LTK** | LTK: Orphan receptor with a tyrosine-protein kinase activity. The exact function of this protein is not known. Studies with chimeric proteins (replacing its extracellular region with that of several known growth factor receptors, such as EGFR and CSFIR) demonstrate its ability to promote growth and specifically neurite outgrowth, and cell survival. Signaling appears to involve the PI3 kinase pathway. Involved in regulation of the secretory pathway involving endoplasmic reticulum (ER) export sites (ERESs) and ER to Golgi transport. Homodimer when bound to ligand (Probable). Part a complex including LTK, TNK2 and GRB2, in which GRB2 promotes LTK recruitment by TNK2. Expressed in non-hematopoietic cell lines and T- and B-cell lines. Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. 4 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Membrane protein, integral; Protein kinase, tyrosine (receptor); EC 2.7.10.1; Kinase, protein; Protein kinase, TK; TK group; Alk family<br><br>Chromosomal Location of Human Ortholog: 15q15.1-q21.1<br><br>Cellular Component: integral to plasma membrane; membrane; plasma membrane<br><br>Molecular Function: protein kinase activity; protein-tyrosine kinase activity<br><br>Biological Process: cell proliferation; negative regulation of apoptosis; phosphoinositide 3-kinase cascade; protein amino acid phosphorylation; signal transduction |
| **Research Articles on LTK** | **1.** Only two related secreted factors, FAM150A and FAM150B (family with sequence similarity 150 member A and member B), stimulated LTK phosphorylation. |
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